Title: Multi-Level Resource Limits for Operating System Partitions
Inventor(s): Ozgur C. Leonard, et al.
Serial No.: NYA
Docket No. 15437-0601

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Fig. 1

Title: Multi-Level Resource Limits for Operating System Partitions
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Fig. 2

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Fig. 3

PROJECT

LIMIT = 1000

LIMIT = 100

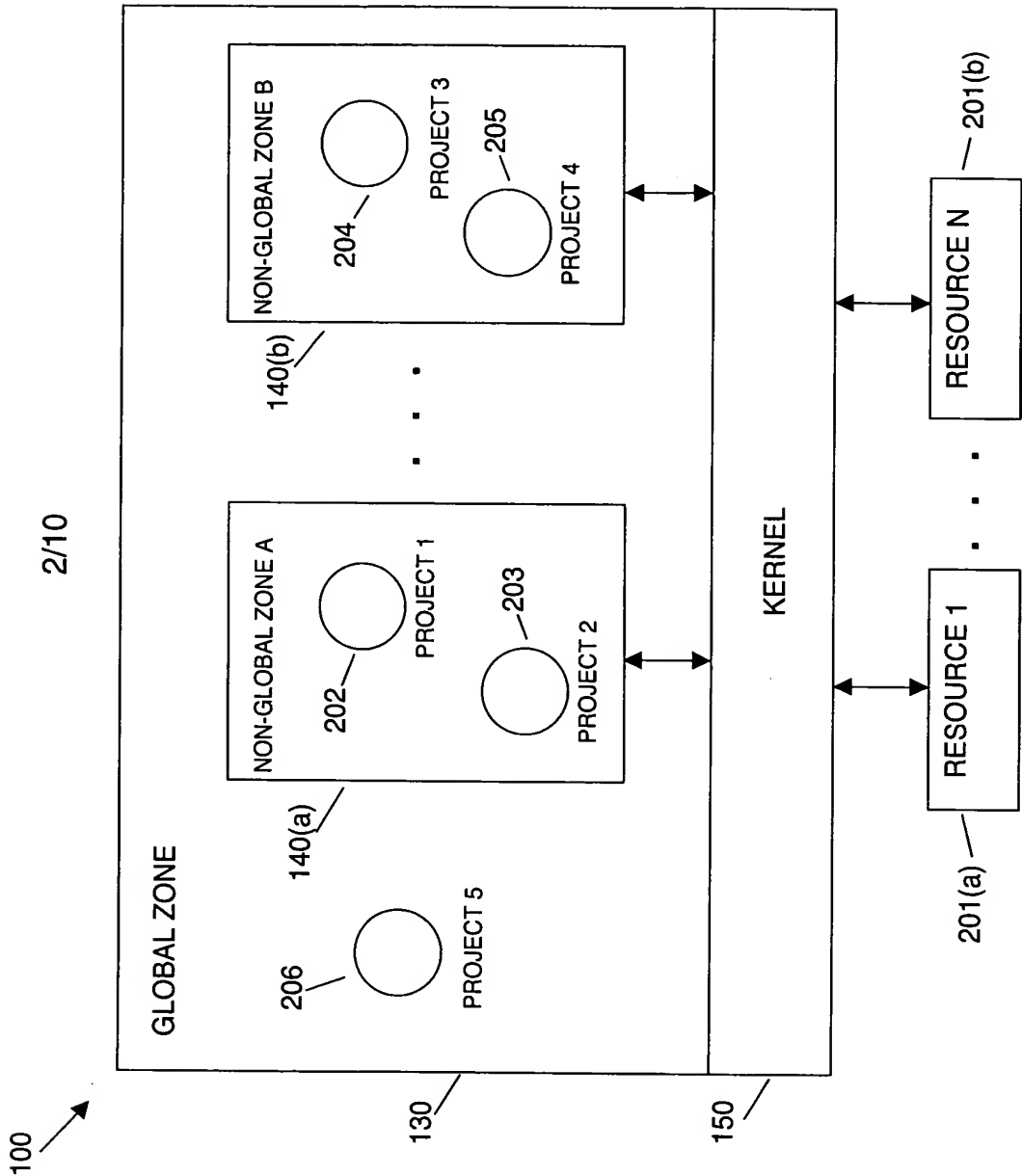ZONE

403
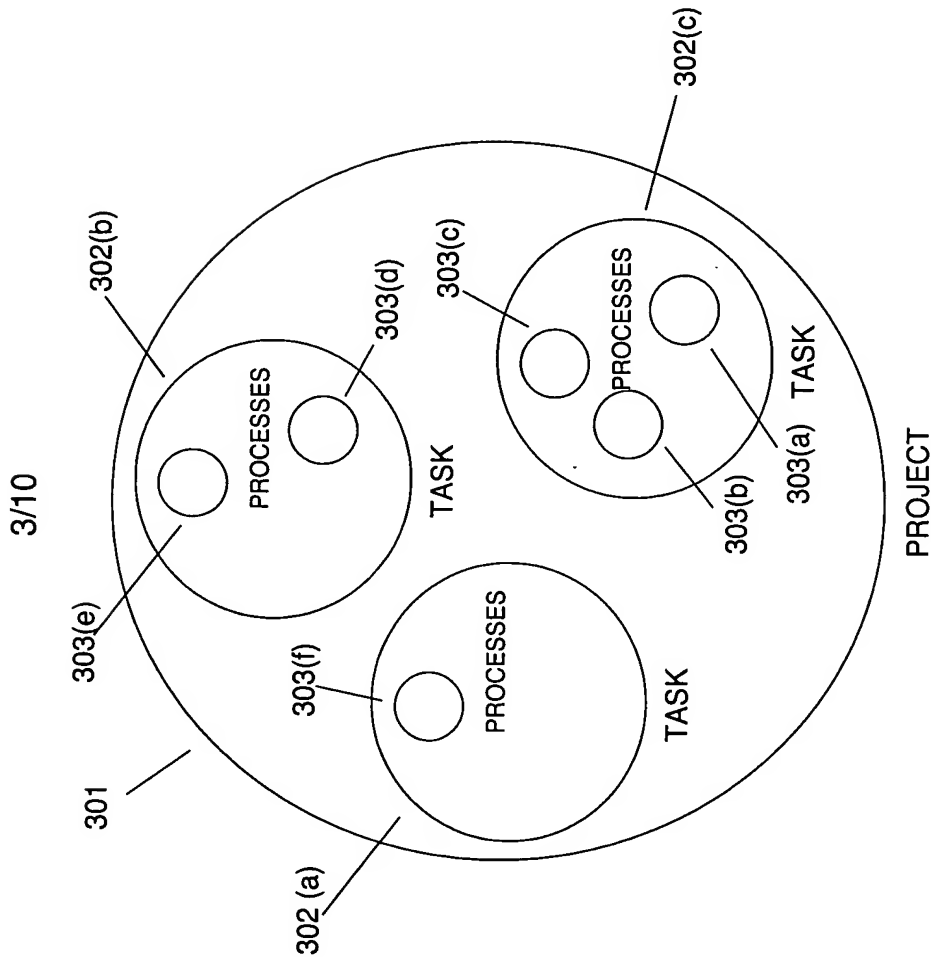
404

ZONE

PROJECT

LIMIT = 100

LIMIT = 10

401

402

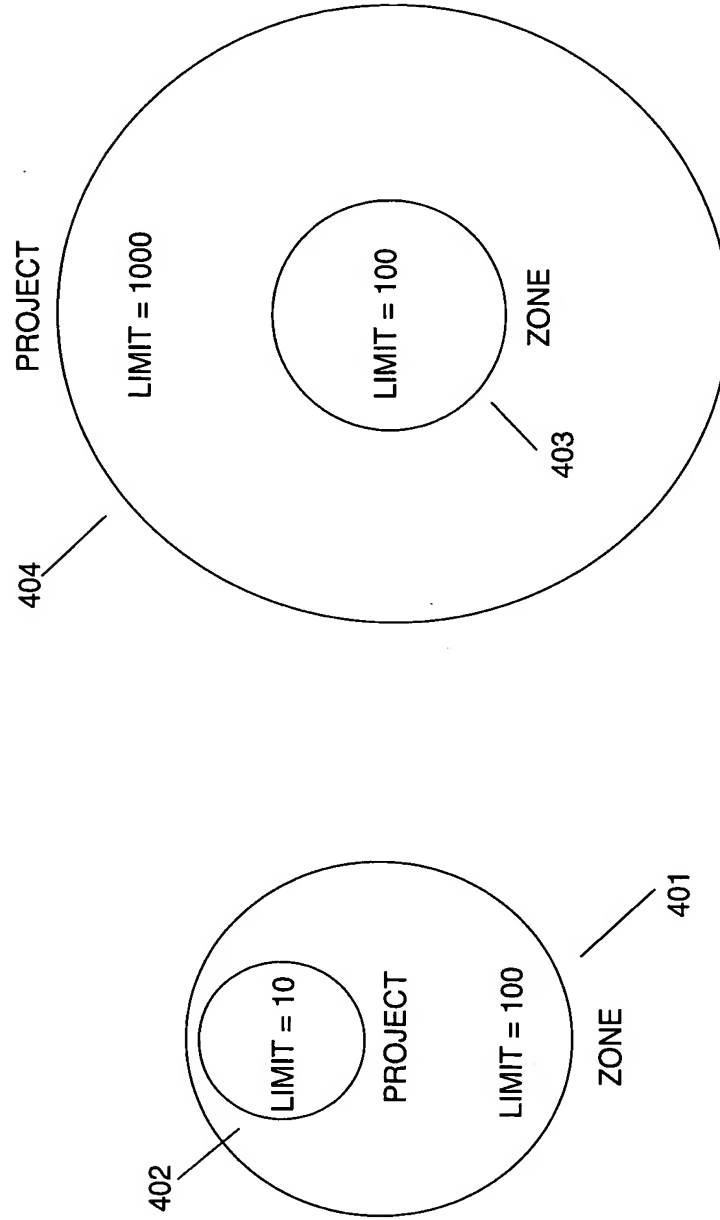*Fig. 4*

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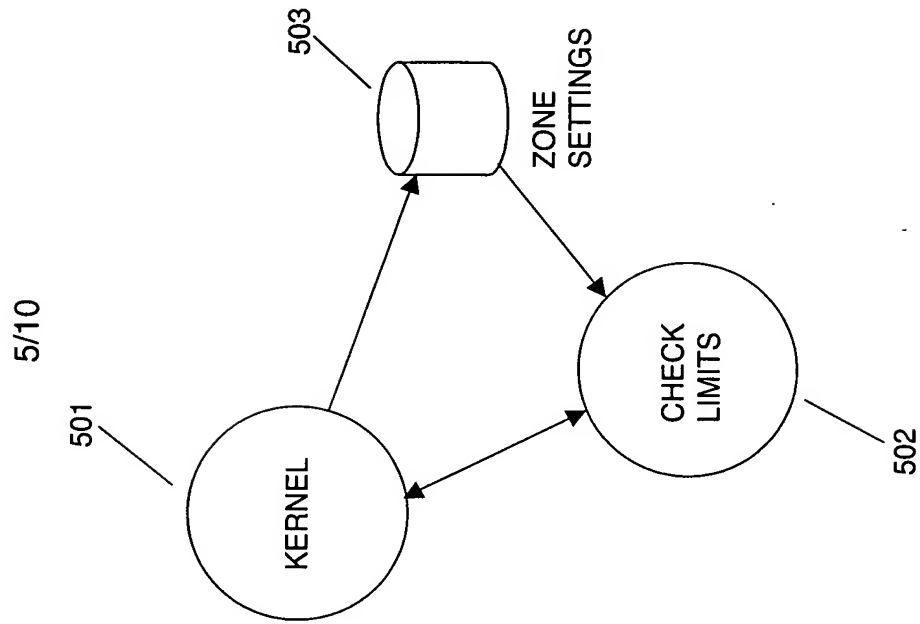

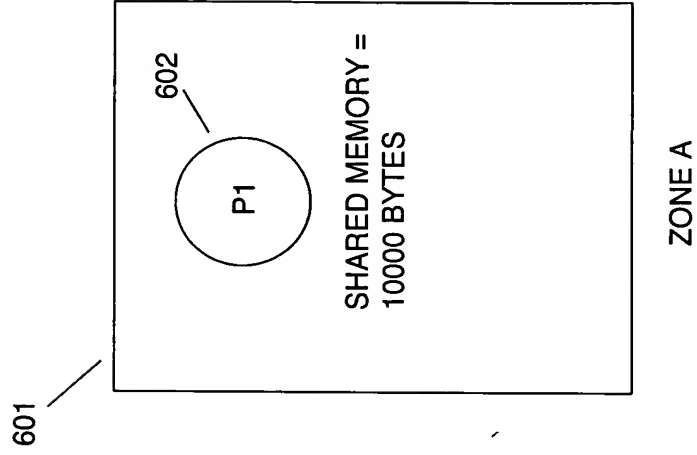
Fig. 5

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SHARED MEMORY ZONE LIMIT = 20000 BYTES
SHARED MEMORY PROJECT LIMIT = 10000 BYTES

601

602

P1

SHARED MEMORY =
10000 BYTES

ZONE A

Fig. 6

SHARED MEMORY ZONE LIMIT = 20000 BYTES
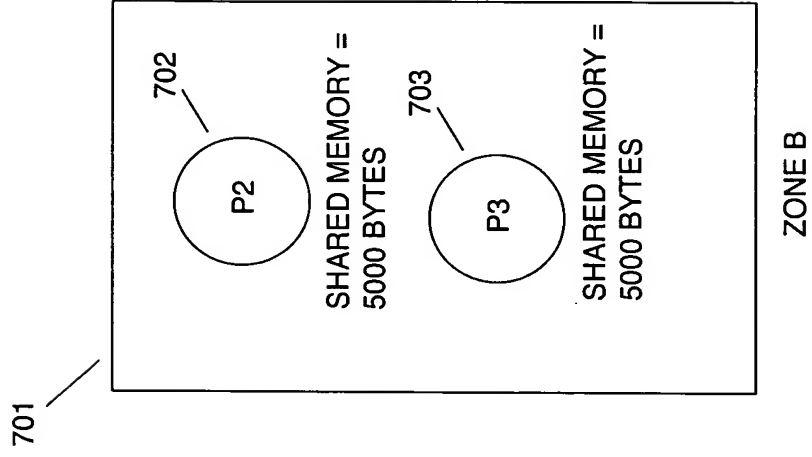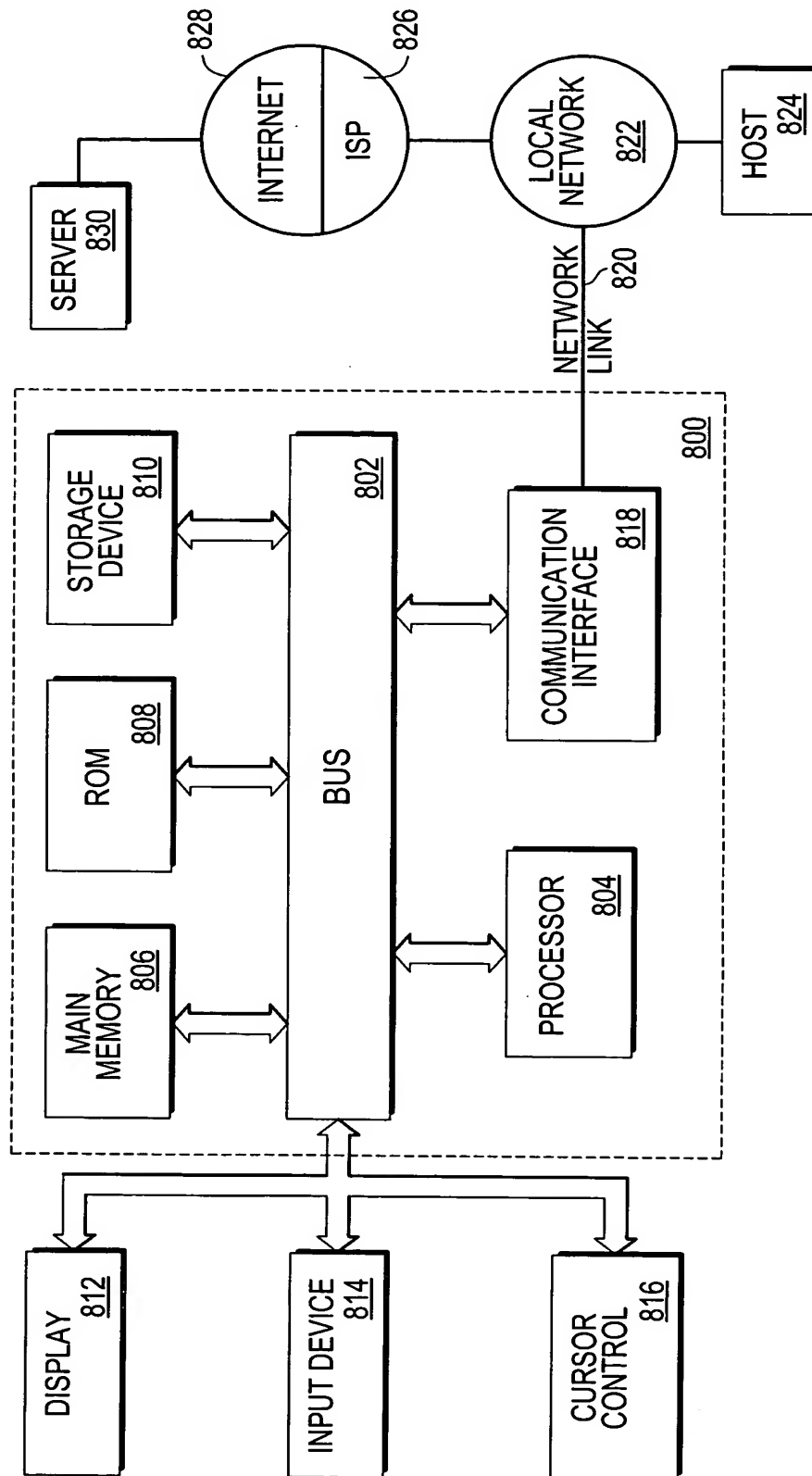SHARED MEMORY PROJECT LIMIT = 10000 BYTES

701

702

P2

SHARED MEMORY =
5000 BYTES

703

P3

SHARED MEMORY =
5000 BYTES

ZONE B

Fig. 7

Fig. 8

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902

ESTABLISH NON-GLOBAL PARTITION

904

ASSOCIATE A FIRST RESOURCE LIMIT WITH THE NON-GLOBAL PARTITION

906

ASSOCIATE A SECOND RESOURCE LIMIT WITH A PROJECT EXECUTING WITHIN THE NON-GLOBAL PARTITION

Fig. 9

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1001

DETERMINE AVAILABLE AMOUNT
OF RESOURCE USING LOWER OF
REMAINING PROJECT AND ZONE
ALLOCATION

1002

IS PROCESS
REQUEST>AVAILABLE
AMOUNT?

Y

1003

NO
ALLOCATION

N

1004

ALLOCATE
REQUEST

Fig. 10